



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,355	01/30/2004	John M. Koegler	200313825-1	8319
22879	7590	10/21/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			KOVAL, MELISSA J	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 10/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/769,355

Applicant(s)

KOEGLER ET AL.

Examiner

Melissa J. Koval

Art Unit

2851

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 18 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 7-18, 21-24, 26-31 and 34-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 7-18, 21-24, 26-31 and 34-40 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7-18, 21-24, 26-31, and 34-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takatsuka et al. U.S. Patent 6,676,280 B1 in view of Biber et al. U.S. Patent 6,899,444 B1.

See Figures 5 through 19 of '280 B1, for example.

See Figures 3 through 5 of '444 B1, for example.

Claim 7 sets forth: "A light generation assembly, comprising (See light source portion 200 of '280 B1.):

an integrated unit including an integral reflector and heat sink, and a lamp receiving opening defined in said integral reflector and heat sink (See case 45, light source casing 43, light source 2 and fixing spring 42 of '280 B1. Also see Figure 3 and column 3, lines 38 through 61, of 444 B1.);

a lamp assembly replaceably coupled to said integrated unit and extending at least partially through said lamp receiving opening (See Figure 11, for example of '280 B1.);

a housing configured to contain said integrated unit and lamp assembly and to facilitate movement of said light generation assembly between an opening configuration

and a lamp replacement configuration (See housing 101 that includes lower portion 103 of '280 B1.); and

a fan assembly coupled to said housing wherein said integrated unit is in a flow path of said fan assembly when in said operating configuration and at least partially out of said flow path of said fan assembly when in said lamp replacement configuration (See Figures 14 and 19, for example, wherein cooling fan 47 is shown of '280 B1. See Figure 5 and column 6, lines 35 through 62 of '444 B1.)."

Takatsuka et al. '280 B1 show all of the elements of claim 7 except that Takatsuka et al. '280 B1 do not specifically use the term "heat sink" in a description of their invention. However Takatsuka et al. do teach the use of a cut filter 23 that is part of optical block 3. See column 5, lines 15 through 18 of '280 B1.

In view of the teaching of Takatsuka et al., the presence of a heat sink as claimed is not deemed to be patentably distinct because it does not achieve results that are unexpected over the cut filter 23 that is part of optical block 3 rather than the lamp unit. Furthermore, it is well known in the art that lamps require heat control, and a heat sink or a heat dissipation device and a fan are often used in combination as shown by Biber et al. '444 B1 and discussed above. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to include a heat sink, as shown by Biber et al. '444 B1, in cooperation with the remaining elements as shown by Takatsuka et al. '280 B1, thus meeting the limitations of claim 7.

With respect to claim 8, again refer to column 6, lines 35 through 62 of '444 B1.

With respect to claims 9 through 11, the composition of the reflector and heat sink do not patentably distinguish those claims over the prior art of record. Both Takatsuka et al. and Biber et al. discuss various materials.

Claim 12 is rejected for the same reasons already applied to rejected claim 1. Furthermore, with respect to the guide rods claimed therein see pins 41a that engage long grooves 45a as shown in Figure 6 of '280 B1, for example.

Claim 13 is rejected for the same reasons already applied to claims 1 and 12 above. Also refer to Figure 14 wherein two positions for the lamp unit are shown with respect to the fan 47 of '280 B1.

Claim 14 is rejected for the same reasons already applied to rejected claims 1, 12, 13, and 14. Furthermore with respect to the limitation "linkage member" refer to push-up lever 48 of '280 B1.

Method claims 21, 26 and 27 are rejected for the same reasons already applied to rejected claims 13 and 14.

Claim 15 and method claim 18 are rejected for the same reasons already applied to rejected claim 1 above.

With respect to claim 16, see Figure 4. Also see column 5, lines 18 through 48 of '280 B1.

With respect to claim 17, the teaching of '280 B1 allows for a single valve projection system. See column 12, lines 24 through 30.

With respect to claims 22 through 24, 28 through 31, and 34 through 40 refer again to Figures 5 through 19 of '280 B1.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ichibakase et al. U.S. Patent Application Publication US 2002/0005695 teaches a lamp unit and image projection apparatus.

Koegler, III et al. U.S. Patent Application Publication US 2005/0168991 A1 teaches a datum structure for ensuring alignment with respect to a reflector assembly.

Koegler U.S. Patent Application Publication US 2005/0168993 A1 teaches a datum structure for ensuring alignment of a lamp assembly.

Saccomanno et al. U.S. Patent 6,428,198 B1 teaches a display system having a light source separate from a display device.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2851

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J. Koval whose telephone number is (571) 272-2121. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



MJK

**William Perkey**  
**Primary Examiner**